PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 0000055728/MUE	FOR FURTHER ACTION		See Form PCT/IPEA/416				
International application No. PCT/EP2004/013937	International filing date (d. 08.12.2004	ay/month/year)	Priority date (day/month/year) 10.12.2003				
International Patent Classification (IPC) or national classification and IPC							
D21H21/10, D21H17/55, D21H17/56, D21H17/67, D21H17/68							
Applicant	al ·						
BASF AKTIENGESELLSCHAFT et	aı.						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
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3. This report is also accompanied to	by ANNEXES, comprising): 	oo fallawa				
a. 🛛 sent to the applicant and t	o the International Burea	u) a total of 1 sneets,	as follows:				
and/or sheets containi Administrative Instruc	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
beyond the disclosure	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the						
I County the International I	Supplemental Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a						
acquence lieting and/or tal	sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).						
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4. This report contains indications re	elating to the following ite	ems:					
☐ Box No. I Basis of the op	inion						
☐ Box No. II Priority							
l .		d to novelty, inventive	step and industrial applicability				
☐ Box No. IV Lack of unity of	f invention		turnation along an industrial				
applicability; ci	tations and explanations) with regard to novelty supporting such staten	, inventive step or industrial nent				
☐ Box No. VI Certain docum			•				
	s in the international appl						
☐ Box No. VIII Certain observ	rations on the internationa	al application					
Date of submission of the demand		Date of completion of th	is report				
15.09.2005		07.04.2006					
Name and mailing address of the internation preliminary examining authority:	onal	Authorized Officer	good techno Potentian				
European Patent Office D-80298 Munich		Naeslund, P	Oll Spansh				
Tel. +49 89 2399 - 0 Tx: 523	3656 epmu d	Telephone No. +49 89 2	2399-8614				
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/013937

	Box I	No. I	Basis of the report	
 With regard to the language, this report is based on the international application in the language in filed, unless otherwise indicated under this item. 				
	□ T	This re vhich i	port is based on trans s the language of a tr	slations from the original language into the following language , anslation furnished for the purposes of:
		J pub	lication of the interna	er Rules 12.3 and 23.1(b)) tional application (under Rule 12.4) examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements* of the international application, this report is based on (replacement sh have been furnished to the receiving Office in response to an invitation under Article 14 are referred report as "originally filed" and are not annexed to this report):				ving Office in response to an invitation under Article 14 are referred to in this
	Descr	ription	, Pages	
	1-24			as originally filed
	Claim	ıs, Nur	nbers	
	4, 5			as originally filed
	1-3			received on 15.09.2005 with letter of 14.09.2005
	□ a	a sequ	ence listing and/or an	y related table(s) - see Supplemental Box Relating to Sequence Listing
3.		The ar	nendments have resu	lted in the cancellation of:
			description, pages	
			claims, Nos. drawings, sheets/figs	•
		□ the	sequence listing (spe	ecify):
	[□ any	table(s) related to se	equence listing (specify):
4.	had r	not be	eport has been establi en made, since they I Ital Box (Rule 70.2(c)	shed as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the).
	[□ the	description, pages claims, Nos.	
			drawings, sheets/figs sequence listing (spe	
				equence listing (specify):
	*]	[f it	em 4 applies, so	ome or all of these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/013937

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2,3

1. Statement

Novelty (N) Yes: Claims

No: Claims 1

Inventive step (IS) Yes: Claims NONE

No: Claims 1-3

Industrial applicability (IA) Yes: Claims 1-3

No: Claims NONE

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/EP2004/01393

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: DE-A-4032660 D2: JP-A-402006685

1. Document D1 (see page 3, lines 45-50; Examples, claim 1 and 2; page 4, line 36) discloses a filler (CaCO3) containing paper further comprising a polyvinylamine polymer within the range claimed obtained by hydrolysis of N-vinylformamide comprising polymer, as a fixing agent.

Claim 1 therefore lacks novelty; Art. 33(2) PCT.

- 2. Dependent claims 2,3 do not contain any features which, in combination with the features of claim 1 to which they refer, meet the requirements of the PCT in respect of inventive step, these features are general knowledge in the field.
- 3. For the assessment of the present claims on the question whether they are industrially applicable, no particular reasoning would appear necessary to give. The industrial application would appear to be evident (Art. 33(4) PCT).

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Amended Claims

- A method for the production of filler-containing paper by dewatering a pulp in the presence of a cationic polymer containing vinylamine units and a filler to obtain an ash content of the paper of 3-40 wt%, which is characterized in that
 - (A) at least 0.0005% but less than 0.05%, by conversion to solids concentration in terms of the pulp, of a polymer obtained by 20 to 100% hydrolysis of the total formyl groups in a polymer having at least N-vinylformamide as a polymerization component is added to the pulp slurry as a fixing agent for
 - (B) titanium dioxide and/or calcium carbonate.
- 2. A method for the production of filler-containing paper according to Claim 1, which is characterized in that component (A) and component (B) described in Claim 1 are added to the pulp slurry such that the mass ratio of component (A) to component (B) is of proportions [component (A)/component (B)] = 0.001/100 to 0.5/100 by conversion to solids concentration.
- Use of the filler-containing paper produced according to the method of Claim 1 or Claim 2 as a base paper for construction materials, India paper or tip base paper for cigarettes.

